What is claimed is:

1. A fluorochemical composition comprising a major amount of organic solvent and 0.05% by weight to 5% by weight of fluorochemical oligomer dispersed or dissolved in said organic solvent and said fluorochemical oligomer being represented by the general formula:

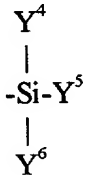
$$X\text{-}M^{f}_{n}M^{h}_{m}M^{a}_{r}\text{-}G$$

wherein X represents the residue of an initiator or hydrogen;

M^f represents units derived from fluorinated monomers;

M^h represents units derived from a non-fluorinated monomers;

M^a represents units having a silyl group represented by the formula:



wherein each of Y^4, Y^5 and Y^6 independently represents an alkyl group, an aryl group or a hydrolyzable group;

G is a monovalent organic group comprising the residue of a chain transfer agent;

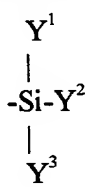
n represents a value of 1 to 100;

m represents a value of 0 to 100;

r represents a value of 0 to 100;

and n+m+r is at least 2;

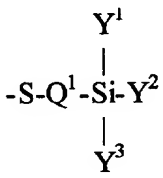
with the proviso that at least one of the following conditions is fulfilled: (a) G is a monovalent organic group that contains a silyl group of the formula:



wherein Y^1, Y^2 and Y^3 each independently represents an alkyl group, an aryl group or a hydrolyzable group with at least one of Y^1, Y^2 and Y^3 representing a hydrolyzable group; or (b) r is at least 1 and at least one of Y^4, Y^5 and Y^6 represents a hydrolyzable group.

2. Fluorochemical composition according to claim 1 wherein at least one of Y^1, Y^2 and Y^3 and/or at least one of Y^4, Y^5 and Y^6 is a hydrolyzable group selected from the group consisting of halogen, an alkoxy group, an acyloxy group, an acyl group and an aryloxy group.

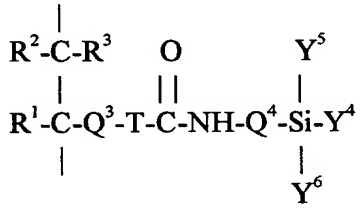
3. Fluorochemical composition according to claim 1 wherein said monovalent organic group G corresponds to the general formula:



wherein Y^1,Y^2, Y^3 have the meaning as defined in claim 1 or 2 and wherein Q^1 represents an organic divalent linking group.

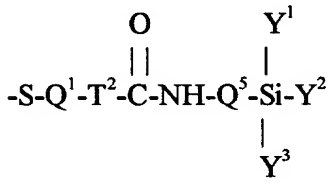
4. Fluorochemical composition according to claim 1 wherein M^f comprises a unit derived from a fluorinated monomer of the formula:
C_4F_9-Q^2-E^1
wherein E^1 represents a free radical polymerizable group and Q^2 represents an organic divalent linking group.

5. Fluorochemical composition according to claim 1 wherein M^a is a unit derived corresponding to the formula:



wherein R^1, R^2 and R^3 each independently represents hydrogen, an alkyl group, an aryl group or halogen, Q^3 represents an organic divalent linking group, T represents O or NR with R being hydrogen, an aryl or a C_1-C_4 alkyl group, and Y^4, Y^5 and Y^6 have the meaning as defined in claim 1.

6. Fluorochemical composition according to claim 1 wherein G corresponds to the formula:



wherein Q^1 and Q^5 each independently represents an organic divalent linking group, T^2 represents O or NR with R being hydrogen, an aryl or a C_1-C_4 alkyl group, and Y^1, Y^2 and Y^3 have the meaning as defined in claim 1.

7. Fluorochemical composition according to claim 1 wherein the composition is a homogeneous composition further comprising water and an organic or inorganic acid.

8. Fluorochemical composition according to claim 1 wherein the units derived from non-fluorinated monomers are units derived from non-fluorinated monomers corresponding to the general formula:

R^h-Q^6_s-E^3

wherein R^h represents a hydrocarbon group, Q^6 is a divalent linking group, s is 0 or 1 and E^3 is a free radical polymerizable group.

9. Method of treating a substrate comprising applying to said substrate a composition according to claim 1.

10. Method of treating a substrate comprising applying to said substrate a composition according to claim 1 and exposing a thus obtained coated substrate to water and an organic or inorganic acid.

11. Method of treating a substrate according to claim 9 further comprising the step of exposing the coated substrate to an elevated temperature of 60°C to 300°C.

12. Method according to claim 9 wherein said substrate is selected from the group consisting of plastics, ceramics and glass.

13. Substrate comprising a coating derivable from the coating composition of any of claim 1 wherein the substrate is selected from the group consisting of plastics, ceramics and glass.

14. Fluorochemical oligomer corresponding to the formula:

$$X\text{-}M^{f}_{n}M^{h}_{m}M^{a}_{r}\text{-}G$$

wherein X represents the residue of an initiator or hydrogen;

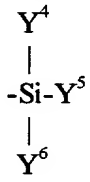
M^f represents units derived from fluorinated monomers having the formula:

$$C_4F_9\text{-}Q^2\text{-}E^1$$

wherein E^1 represents a free radical polymerizable group and Q^2 represents an organic divalent linking group;

M^h represents units derived from non-fluorinated monomers;

M^a represents units having a silyl group represented by the formula:



wherein each of Y^4, Y^5 and Y^6 independently represents an alkyl group, an aryl group or a hydrolyzable group, with the proviso that at least one of Y^4, Y^5 and Y^6 represents a hydrolyzable group;

G represents a monovalent organic group comprising the residue of a chain transfer agent;

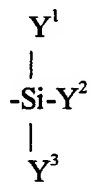
n represents an integer of 1 to 100;

m represents an integer of 0 to 100;

r represents an integer of 0 to 100;

and n+m+r is at least 2;

with the proviso that at least one of the following conditions is fulfilled: (a) G is a monovalent organic group that contains a silyl group of the formula:



wherein Y^1, Y^2 and Y^3 each independently represents an alkyl group, an aryl group or a hydrolyzable group with at least one of Y^1, Y^2 and Y^3 representing a hydrolyzable group; or (b) r is at least 1 and at least one of Y^4, Y^5 and Y^6 represents a hydrolyzable group.

15. Fluorochemical oligomer having the formula:

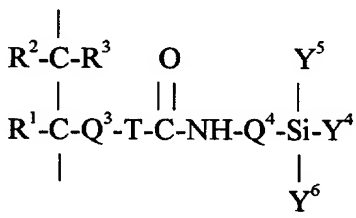
$$X\text{-}M^f_nM^h_mM^a_r\text{-}G$$

wherein X represents the residue of an initiator or hydrogen;

M^f represents units derived from fluorinated monomers;

M^h represents units derived from non-fluorinated monomers;

M^a represents units having the formula:



wherein R^1, R^2 and R^3 each independently represents hydrogen, an alkyl group, an aryl group or halogen, Q^3 represents an organic divalent linking group, T represents O or NR with R being hydrogen, an aryl or a C_1-C_4 alkyl group, and wherein each of Y^4, Y^5 and Y^6 independently represents an alkyl group, an aryl group or a hydrolyzable group, with the proviso that at least one of Y^4, Y^5 and Y^6 represents a hydrolyzable group;

G represents a monovalent organic group comprising the residue of a chain transfer agent;

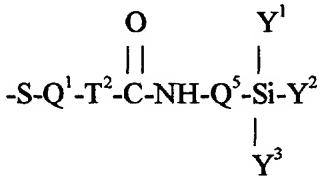
n represents an integer of 1 to 100;

m represents an integer of 0 to 100;

r represents an integer of 1 to 100;

and n+m+r is at least 2.

16. Fluorochemical oligomer according to claim 15 wherein G corresponds to the formula:



wherein Q^1 and Q^5 each independently represents an organic divalent linking group, T^2 represents O or NR with R being hydrogen, an aryl or a C_1-C_4 alkyl group, and Y^1, Y^2 and Y^3 each independently represents an alkyl group, an aryl group or a hydrolyzable group with at least one of Y^1, Y^2 and Y^3 representing a hydrolyzable group.

17. Fluorochemical oligomer having the formula:

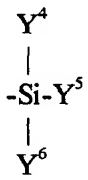
$X\text{-}M^f_nM^h_mM^a_r\text{-}G$

wherein X represents the residue of an initiator or hydrogen;

M^f represents units derived from fluorinated monomers;

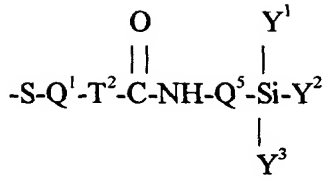
M^h represents units derived from a non-fluorinated monomers;

M^a represents units having a silyl group represented by the formula:



wherein each of Y^4,Y^5 and Y^6 independently represents an alkyl group, an aryl group or a hydrolyzable group, with the proviso that at least one of Y^4, Y^5 and Y^6 represents a hydrolyzable group;

G corresponds to the formula:



wherein Q^1 and Q^5 each independently represents an organic divalent linking group, T^2 represents O or NR with R being hydrogen, an aryl or a C_1-C_4 alkyl group, and Y^1, Y^2 and Y^3 each independently represents an alkyl group, an aryl group or a hydrolyzable group with at least one of Y^1, Y^2 and Y^3 representing a hydrolyzable group;

n represents an integer of 1 to 100;

m represents an integer of 0 to 100;

r represents an integer of 0 to 100;

and n+m+r is at least 2.